

L Number	Hits	Search Text	DB	Time stamp
-	1	(ac near cable) and (different near thickness)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/17 11:23
-	0	(ac near cable) and (vary near thickness)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/17 11:27
-	0	(ac near cable) and ((first and second) near thickness)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/17 11:21
-	1	(superconducting near cable) and ((first and second) near thickness)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/17 11:32
-	1	(superconducting near cable) and (different near thickness)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/17 11:32
-	1	(superconducting near cable) and (vary near thickness)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/17 11:27
-	4	(superconducting near cable) and (different near material)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/17 11:33
-	9	(superconducting near cable) and ((first and second) near material)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/17 11:38
-	4	((superconducting near cable) and (different near material)) not ((superconducting near cable) and ((first and second) near material))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/17 12:45
-	4	(cryogenic adj plant) and ((superconducting or ac) near cable)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/17 15:42
-	148	(cryogenic) and ((superconducting or ac) near cable)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/17 18:11

DERWENT-ACC-NO: 1998-511955

DERWENT-WEEK: 199844

COPYRIGHT 1999 DERWENT INFORMATION LTD

TITLE: Superconductive cable structure -
has cooling unit
equipped with heat radiation type
that is arranged along
axial direction of superconductor
with cooling source at
its edge

PATENT-ASSIGNEE: FUJIKURA LTD[FUJD]

PRIORITY-DATA: 1997JP-0040001 (February 7, 1997)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	MAIN-IPC
JP 10223066 A		August 21, 1998	N/A
004	H01B 012/16		

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-DESCRIPTOR	APPL-NO
JP 10223066A		N/A	
1997JP-0040001		February 7, 1997	

INT-CL (IPC): H01B012/16, H01B013/00

ABSTRACTED-PUB-NO: JP 10223066A

BASIC-ABSTRACT:

The structure includes a superconductor (12) cooled below a critical temperature by a cooling unit. The cooling unit has a heat radiation pipe (11) arranged along the axial direction of the superconductor. A cooling source (18) is connected to the edge of the heat radiation pipe.

ADVANTAGE - Eliminates need for passing coolant into cable
thereby simplifies
structure.

CHOSEN-DRAWING: Dwg.1/3

TITLE-TERMS: SUPERCONDUCTING CABLE STRUCTURE COOLING UNIT
EQUIP HEAT RADIATE
TYPE ARRANGE AXIS DIRECTION SUPERCONDUCTING
COOLING SOURCE EDGE

DERWENT-CLASS: X12

EPI-CODES: X12-C02A3; X12-D06A;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1998-399668

DERWENT-ACC-NO: 1984-144968

DERWENT-WEEK: 198423

COPYRIGHT 1999 DERWENT INFORMATION LTD

TITLE: Superconducting cable system
cryogenic plant operation -
using precooled active gas and fully
sealing hydrogen or
helium compressor, by component
condensn. at ambient
temp. and evapn.

INVENTOR: BELYAKOV, V P; LAVRENCHEV, G K ; MINKUS, B A

PATENT-ASSIGNEE: KRIOGENMASH SCI PROD ASS[KRIOR] , ODESSA
REFRIG IND
RES [ODRI]

PRIORITY-DATA: 1982SU-3405394 (March 2, 1982)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	
LANGUAGE		MAIN-IPC	
SU 1041830 A		September 15, 1983	N/A
004	N/A		

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
SU 1041830A	N/A	
1982SU-3405394	March 2, 1982	

INT-CL (IPC): F25B011/00, F25J001/00

ABSTRACTED-PUB-NO: SU 1041830A

BASIC-ABSTRACT:

Cryogenic plant operation by stepped compression of a
flowing mix of active gas and an auxiliary component,
stepped cooling of the

mix to temp. near the freezing point of the component, liq.
component sepn. and
removal of active gas, mixing of the return flow of active
gas with the sepd.
and choked component, evapn. of the component and heating
the mix return flow
to ambient temp. is made more economical as a refrigerator
for a
superconducting cable system.

For energy saving, some of the liq. component is sepd. from
the return mix at
ambient temp.

It is choked stepwise to intermediate pressure to join the
flow of mix at this
temp., evapd. by heat from flows after their compression to
lower pressure and
then directed to following compression.

Active gas is precooled by boiling the auxiliary component,
so dispensing with
liq. nitrogen for this purpose.

Bul.34/15.9.83

CHOSEN-DRAWING: Dwg.1/1

TITLE-TERMS: SUPERCONDUCTING CABLE SYSTEM CRYOGENIC PLANT
OPERATE PRECOOLED

ACTIVE GAS SEAL HYDROGEN HELIUM COMPRESSOR
COMPONENT CONDENSATION
AMBIENT TEMPERATURE EVAPORATION

DERWENT-CLASS: J07 Q75 X12

CPI-CODES: J07-A01;

EPI-CODES: X12-D06;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1984-061343

Non-CPI Secondary Accession Numbers: N1984-107581